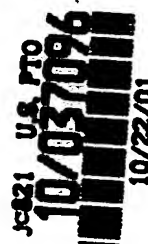


#2

PATENT
SD6851/S96528

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Xavier et al.
Appl. No.: TBD Group: TBD
Filed: ~~IBD~~ Oct. 22, 2001 Examiner: TBD
For: APPARATUS AND METHOD FOR INTERACTION
PHENOMENA WITH WORLD MODULES IN
DATA-FLOW-BASED SIMULATION



INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- ☒ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- ☐ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

a. ☒ **DOCUMENTS IN THE ENGLISH LANGUAGE**

The attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☐ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

c. ☐ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☐ **OTHER**

The following additional information is provided for the Examiner's consideration.

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 19-0131.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 19-0131 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

SANDIA NATIONAL LABORATORIES

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(505) 844-4379

Enclosures:

- ☒ Form PTO-1449(s)
- ☒ Documents
- ☐ Foreign Search Report
- ☐ Fee
- ☐ Other: _____

(Rev. 01/22/01)

[illegible][illegible]

OTHER DOCUMENTS (Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

	<p>Otter et al., "Hybrid Modeling in Modelica based on the Synchronous Data Flow Principle," CACSD'99, August 22-26, Hawaii, USA, 1999, pp. 1-7.</p>
	<p>Mattsson et al., "An Overview of the Modeling Language Modelica," Eurosim'98 Simulation Congress, April 14-15, 1998, Helsinki, Finland, pp. 1-5.</p>
	<p>Elmqvist et al., "An Introduction to the Physical Modeling Language Modelica," Proceedings of the 9th European Simulation Symposium, ESS'97, Oct. 19-23, 1997, Passau, Germany, pp. 1-5.</p>
	<p>Dixon et al., "RAVE: A Real and Virtual Environment for Multiple Mobile Robot Systems," Proceedings of the 1999 IEEE/RJS International Conference on Robotics and Systems (IROS '99), pp. 1-8.</p>
	<p>Diaz-Calderon et al., "A Composable Simulation Environment for Mechatronic Systems," 1999 SCS European Simulation Symposium, Erlangen, Germany, October 26-28, 1999, pp. 1-7.</p>
	<p>Stewart et al., "Design of Dynamically Reconfigurable Real-Time Software Using Port-Based Objects," IEEE Transactions on Software Engineering, Vol. 23, No. 12, December (1997), pp. 759-776</p>

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		ATTY DOCKET NO. SD-6851		APPLICATION NO. TBD	
		APPLICANT Xavier, et al.			
		FILING DATE 10/22/01		GROUP TBD	

U.S. PATENT DOCUMENTS												
EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS													
	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
												YES	NO

OTHER DOCUMENTS		(Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Anderson, R. J., "Building A Modular Robot Control System Using a Passivity and Scattering Theory", 1996 IEEE International Conference on Robotics and Automation (ICRA), Minneapolis, MN 1996, pp 698-705.
		Hudson, et al, "V-Collide: Accelerated Collision Detection for VRML", Proceedings VRML '97, Monterey, CA February 1997.
		Kavraki and Latombe, "Chapter 3: Probabilistic Roadmaps for Robot Path Planning," in Practical Motion Planning in Robotics, Gupta, Kamal; DelPobil, Angel P. (ed.s) John Wiley & Sons, Chichester (West Sussex), England 1998, pp. 33-53
		Xavier, Patrick, "Fast Swept-Volume Distance for Robust Collision Detection", IEEE International Conference On Robotics and Automation, Albuquerque, NM, April 20-25, 1997
		Schoenwald et al, "Decentralized Control of a Collective of Autonomous Robotic Vehicles, 2001 American Control Conference, Arlington, VA June 25-27, 2001.

EXAMINER	DATE CONSIDERED
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